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INDUSTRIAL NOTES.

Standard Resistance Box and Bridge.

MESSRS. JAMES W. QUEEN & CO. call the attention of electricians to the following indorsement of their No. 1 Standard laboratory resistance box and bridge. The set referred to in a letter from Professor B. F. Thomas, an extract from which we give below, was designed by Professor William A. Anthony, and was constructed under his personal supervision by the Mather Electric Company. By a special arrangement, all these sets are now made by Messrs. Queen & Co. Professor Anthony adjusts all of the coils, and furnishes a certificate with each set.

Professor Benjamin F. Thomas of the Ohio State University writes from Columbus, O., May 18, 1889, concerning this new resistance set, "The mechanical work on it is, if any thing, superior to that of Elliott Brothers. The metal segments are uniform in size and shape, and well finished, while the fit of the plugs is the

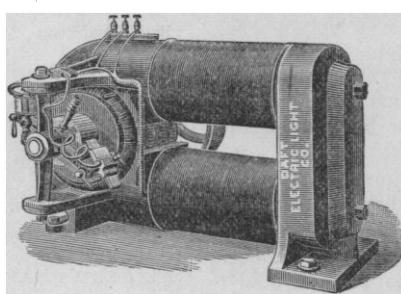
most perfect I have seen. The coils are of one lot of wire throughout, and have therefore a uniform temperature co-efficient, whose low value, .00024, allows one to neglect it in all ordinary work. The box is adjusted to legal ohms at 19° C., and is accompanied by Professor Anthony's statement that they are accurate to $\frac{1}{50}$ of 1 per cent. . . . You will remember that you procured for me while at the University of Missouri a large five-dial bridge from Elliott Brothers. That was a fine piece of apparatus, but I regard this as far superior. It has all the advantages of the dial arrangements, and has in addition the advantage of the possible connection of any single coil, or of almost any desired combination of single coils, and also of any desired combination in parallel. One can therefore check the adjustments of the several coils against one another, the box thus containing means for its own verification. The box answers also the purpose of a set of comparison coils, and enables one to do a number of things which cannot be done with the usual forms."

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